

Name of Accreditation Program	JCSS Accreditation Program
Accreditation No.	JCSS0016
Date of Initial Accreditation	2005-12-26 (Calibration) 2007-10-24 (Reference Material Production)
Latest Date of Issue	2018-04-17
Name and Address of Accredited Organization	Tokyo Plant, FUJIFILM Wako Pure Chemical Corporation 1633 Oazamatoba, Kawagoe-shi, Saitama 350-1101, Japan JCN 7120001077597
Inquiry Point	Quality Control Department Tel: +81-49-231-1034      FAX: +81-49-239-1232
Accreditation Standards	ISO/IEC 17025:2005 (Calibration) ISO Guide 34:2009 (Reference Material Production) The accreditation as reference material producer is covered by APLAC MRA. (not covered by ILAC MRA)
Accreditation Scope	As attached

\*JCN : Japan Corporate Number

General Field of Calibration : Concentration

Date of Initial Accreditation as a Calibration Laboratory : 2005-12-26

Date of Initial Accreditation as a Certified Reference Material Producer : 2007-10-24

Permanent Laboratory/On-site Calibration : Permanent Laboratory

Type of service		Calibration scope	CMC (Level of Confidence Approximately 95 %)
pH Standard Solutions	Oxalate pH standard solution	1.679	0.008
	Phthalate pH standard solution	4.008	0.008
	Phosphate equimolal pH standard solution	6.865	0.010
	Phosphate pH standard solution	7.413	0.009
	Tetraborate pH standard solution	9.180	0.011
	Carbonate pH standard solution	10.012	0.014
Standard Solutions except pH Standard Solutions	Aluminum standard solution	100 mg/L	0.8 %
		1000 mg/L	0.5 %
	Arsenic standard solution	100 mg/L	0.7 %
		1000 mg/L	0.5 %
	Bismuth standard solution	100 mg/L	1.0 %
		1000 mg/L	0.7 %
	Calcium standard solution	100 mg/L	0.7 %
		1000 mg/L	0.5 %
	Cadmium standard solution	100 mg/L	0.9 %
		1000 mg/L	0.5 %
	Cobalt standard solution	100 mg/L	0.9 %
		1000 mg/L	0.5 %
	Chromium standard solution	100 mg/L	0.7 %
		1000 mg/L	0.6 %
	Copper standard solution	100 mg/L	0.9 %
		1000 mg/L	0.5 %
	Iron standard solution	100 mg/L	0.9 %
		1000 mg/L	0.5 %
	Mercury standard solution	100 mg/L	0.8 %
		1000 mg/L	0.6 %
	Potassium standard solution	100 mg/L	0.9 %
		1000 mg/L	0.6 %
	Magnesium standard solution	100 mg/L	0.7 %
		1000 mg/L	0.6 %
	Manganese standard solution	100 mg/L	0.8 %
		1000 mg/L	0.4 %
	Sodium standard solution	100 mg/L	0.9 %
		1000 mg/L	0.7 %
	Nickel standard solution	100 mg/L	0.9 %
		1000 mg/L	0.4 %
	Lead standard solution	100 mg/L	0.9 %
		1000 mg/L	0.5 %
Antimony standard solution	100 mg/L	0.9 %	
	1000 mg/L	0.4 %	
Zinc standard solution	100 mg/L	0.9 %	
	1000 mg/L	0.5 %	

Standard Solutions except pH Standard Solutions	Barium standard solution	1000 mg/L	0.6 %	
	Lithium standard solution	1000 mg/L	0.5 %	
	Molybdenum standard solution	1000 mg/L	0.5 %	
	Rubidium standard solution	1000 mg/L	0.5 %	
	Selenium standard solution	1000 mg/L	1.0 %	
	Tin standard solution	1000 mg/L	0.6 %	
	Strontium standard solution	1000 mg/L	0.4 %	
	Thallium standard	1000 mg/L	0.5 %	
	Boron standard solution	1000 mg/L	0.4 %	
	Cesium standard solution	1000 mg/L	0.5 %	
	Gallium standard solution	1000 mg/L	0.4 %	
	Indium standard solution	1000 mg/L	0.4 %	
	Tellurium standard solution	1000 mg/L	1.5 %	
	Vanadium standard solution	1000 mg/L	0.5 %	
	Ammonium ion standard solution	1000 mg/L	0.7 %	
	Bromide ion standard solution	1000 mg/L	0.5 %	
	Chloride ion standard solution	1000 mg/L	0.5 %	
	Fluoride ion standard solution	1000 mg/L	0.5 %	
	Nitrate ion standard solution	1000 mg/L	0.7 %	
	Nitrite ion standard solution	1000 mg/L	0.7 %	
	Phosphate ion standard solution	1000 mg/L	0.7 %	
	Sulfate ion standard solution	1000 mg/L	0.7 %	
	Chlorate ion standard solution	1000 mg/L	0.7 %	
	Bromate ion standard solution	2000 mg/L	0.5 %	
	Formaldehyde standard solution	1000 mg/L	4.2 %	
	Total organic carbon standard solution	1000 mg/L	0.5 %	
	4 Anion mixture standard solution			
		Fluoride ion standard solution	50 mg/L	0.8 %
		Chloride ion standard solution	200 mg/L	0.6 %
		Nitrite ion standard solution	33 mg/L	0.8 %
	Nitrate ion standard solution	89 mg/L	0.8 %	

Standard Solutions except pH Standard Solutions	7 Anion mixture standard solution		
	Fluoride ion standard solution	20 mg/L	1.8 %
	Chloride ion standard solution	20 mg/L	1.7 %
	Nitrite ion standard solution	100 mg/L	1.0 %
	Bromide ion standard solution	100 mg/L	2.2 %
	Nitrate ion standard solution	100 mg/L	1.4 %
	Phosphate ion standard solution	200 mg/L	1.8 %
	Sulfate ion standard solution	100 mg/L	1.6 %
	23 VOC mixture standard solution		
	* Any combination of constituents listed as below can be supplied.		
	1,1-Dichloroethylene	1000 mg/L	2.2 %
	Dichloromethane	1000 mg/L	1.1 %
	<i>trans</i> -1,2- Dichloroethylene	1000 mg/L	1.2 %
	<i>cis</i> -1,2-Dichloroethylene	1000 mg/L	0.9 %
	Chloroform	1000 mg/L	0.9 %
	1,1,1-Trichloroethane	1000 mg/L	0.9 %
	Carbon tetrachloride	1000 mg/L	3.4 %
	Benzene	1000 mg/L	0.9 %
	1,2-Dichloroethane	1000 mg/L	0.9 %
	Trichloroethylene	1000 mg/L	0.9 %
	1,2-Dichloropropane	1000 mg/L	0.8 %
	Bromodichloromethane	1000 mg/L	0.9 %
	<i>cis</i> -1,3- Dichloropropene	1000 mg/L	2.7 %
	Toluene	1000 mg/L	0.8 %
	<i>trans</i> -1,3-Dichloropropene	1000 mg/L	3.6 %
	Tetrachloroethylene	1000 mg/L	0.9 %
	Dibromochloromethane	1000 mg/L	1.0 %
	<i>o</i> -Xylene	1000 mg/L	0.8 %
	Tribromomethane	1000 mg/L	0.9 %
1,4-Dichlorobenzene	1000 mg/L	0.9 %	
<i>p</i> -Xylene	1000 mg/L	1.3 %	
<i>m</i> -Xylene	1000 mg/L	1.2 %	
1,1,2-Trichloroethane	1000 mg/L	1.2 %	

Standard Solutions except pH Standard Solutions	25 VOC mixture standard solution		
	* Any combination of constituents listed as below can be supplied.		
	1,1-Dichloroethylene	1000 mg/L	2.2 %
	Dichloromethane	1000 mg/L	1.1 %
	<i>trans</i> -1,2- Dichloroethylene	1000 mg/L	1.2 %
	<i>tert</i> -Butyl methyl ether	1000 mg/L	0.9 %
	<i>cis</i> -1,2-Dichloroethylene	1000 mg/L	0.9 %
	Chloroform	1000 mg/L	0.9 %
	1,1,1-Trichloroethane	1000 mg/L	0.9 %
	Carbon tetrachloride	1000 mg/L	3.4 %
	Benzene	1000 mg/L	0.9 %
	1,2-Dichloroethane	1000 mg/L	0.9 %
	Trichloroethylene	1000 mg/L	0.9 %
	1,2-Dichloropropane	1000 mg/L	0.8 %
	Bromodichloromethane	1000 mg/L	0.9 %
	<i>cis</i> -1,3- Dichloropropene	1000 mg/L	2.7 %
	Toluene	1000 mg/L	0.8 %
	<i>trans</i> -1,3-Dichloropropene	1000 mg/L	3.6 %
	Tetrachloroethylene	1000 mg/L	0.9 %
	Dibromochloromethane	1000 mg/L	1.0 %
	<i>o</i> -Xylene	1000 mg/L	0.8 %
	Tribromomethane	1000 mg/L	0.9 %
	1,4-Dichlorobenzene	1000 mg/L	0.9 %
	1,4-dioxane	1000 mg/L	3.2 %
	<i>p</i> -Xylene	1000 mg/L	1.3 %
<i>m</i> -Xylene	1000 mg/L	1.2 %	
1,1,2-Trichloroethane	1000 mg/L	1.2 %	